

1 **In the Claims**

2 Claims 4 and 8-20 are amended.

3 Claims 1-20 remain in the application and are listed as follows:

4
5 1. (Previously Presented) A method of processing media content, the
6 method comprising:

7 generating a motion compensated prediction of a region of media content;
8 receiving an indication of whether there are first and second quantities of
9 residual samples remaining for refining the prediction, on a per-region basis,
10 wherein the indication comprises one or more values associated with one or more
11 picture-level parameters; and

12 adding of the first quantity of residual samples to the prediction to generate
13 a refined prediction value, when so indicated; and

14 subtracting the second quantity of residual samples from the refined
15 prediction value to generate a final representation, when so indicated.

16
17 2. (Original) A method according to claim 1, wherein the first and
18 second residual samples are eight-bit signed samples.

19
20 3. (Original) A method according to claim 1, further comprising
21 performing an inverse discrete cosine transformation of a decoded transform-
22 domain representation of a total residual difference to be added to the motion
23 compensated prediction for the region of media content.
24
25

1 4. (Currently Amended) A method according to claim 1, wherein the
2 ~~needed~~ region of media content is a block or macroblock of a frame of received
3 media content.

4
5 5. (Original) A method according to claim 1, wherein generating a
6 prediction of media content is performed by a graphics processing accelerator
7 under the control of a decoder application that is executing on a host computing
8 system.

9
10 6. (Original) A method according to claim 1, further comprising:
11 sending any prediction control information necessary for generation of a
12 motion compensated predicted region to an accelerator,
13 sending an indication to the accelerator of whether the first and second
14 quantities of residual samples are to be applied, and
15 sending the first and second sets of residual samples to the accelerator when
16 indicated;
17 performing subsequent processing and/or rendering at the accelerator.

18
19 7. (Original) A method according to claim 1, wherein the region is a
20 block or macroblock of a frame of media content.

1 8. (Currently Amended) ~~A storage medium comprising a plurality of~~
2 ~~executable instructions including a subset of which that, when executed, One or~~
3 ~~more computer-readable storage media having computer-readable instructions~~
4 ~~stored thereon which, when executed by a computer, implement a method~~
5 according to claim 1.

6
7 9. (Currently Amended) A computing system comprising:
8 a computer-readable storage medium including a plurality of executable
9 instructions; and
10 an execution unit, coupled to the storage medium, to execute at least a
11 subset of the plurality of executable instructions to implement a method according
12 to claim 1.

13
14 10. (Currently Amended) ~~A storage medium comprising a plurality of~~
15 ~~executable instructions which, when executed, One or more computer-readable~~
16 ~~storage media having computer-readable instructions stored thereon which, when~~
17 ~~executed by a computer, implement a decoder of media content to generate a~~
18 ~~motion compensated prediction of at least a region of media content, to receive an~~
19 ~~indication of one or more sets of samples of residual information to further refine~~
20 ~~the prediction, wherein the indication comprises one or more values associated~~
21 ~~with one or more picture-level parameters, and to add a first set of such samples to~~
22 ~~the prediction to generate a modified prediction, if indicated, and to subtract a~~
23 ~~second set of such samples from the modified prediction to generate a final motion~~
24 ~~compensated prediction of the region, if indicated.~~
25

11. (Currently Amended) ~~A storage medium~~ One or more computer-readable storage media according to claim 10, wherein the executable instructions on the storage medium cause prediction control information necessary for generation of the motion compensated prediction and the indications of whether the first and/or second quantity of residual samples are to be applied and the actual first and second sets of residual samples to be sent to a communicatively coupled accelerator for subsequent processing and/or rendering.

12. (Currently Amended) ~~A storage medium~~ One or more computer-readable storage media according to claim 10, wherein the region of media content is a block or macroblock of a frame.

13. (Currently Amended) ~~A storage medium~~ One or more computer-readable storage media according to claim 10, wherein the first and second residual samples are eight-bit signed samples.

14. ((Currently Amended) ~~A storage medium~~ One or more computer-readable storage media according to claim 10, further comprising performing an inverse discrete cosine transformation of a decoded transform-domain representation of a total residual difference to be added to the motion compensated prediction for the region of media content.

1
2 15. (Currently Amended) A ~~computing~~ system implemented at least in
3 part on a computing device, comprising:

4 a decoder application to receive a region of media content and control
5 generation of decoded media content; and

6 an application program interface (API), communicatively coupling the
7 decoder application with a hardware accelerator, wherein if the API receives an
8 indication of one or more sets of residual samples, the first set of samples is added
9 to a motion compensated prediction to generate a refinement of a prediction value,
10 when so indicated, and a second set of samples is subtracted from the refined
11 prediction value to generate a final representation, when so indicated.

12
13 16. (Currently Amended) A ~~computing~~ system according to claim 15,
14 further comprising:

15 an accelerator, communicatively coupled to the decoder application via the
16 API, to receive control and residual data information for subsequent processing
17 and/or rendering.

18
19 17. (Currently Amended) A ~~computing~~ system according to claim 15,
20 wherein the decoder application generates the residual data samples utilizing an
21 inverse discrete cosine transformation of a decoded transform-domain
22 representation of a total residual difference to be added to the motion compensated
23 prediction for the region of media content.

1 18. (Currently Amended) A ~~computing~~ system according to claim 15,
2 wherein the region of media content is a block or macroblock of a frame.

3
4 19. (Currently Amended) A ~~computing~~ system according to claim 15,
5 further comprising:

6 a storage medium comprising a plurality of executable instructions; and
7 an execution unit, coupled to the storage medium, to execute at least a
8 subset of the plurality of executable instructions to implement the API.

9
10 20. (Currently Amended) A ~~computing~~ system according to claim 19,
11 wherein the execution unit executes at least a subset of the plurality of executable
12 instructions to implement the decoder application.